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STRUCTURE OF A GENE

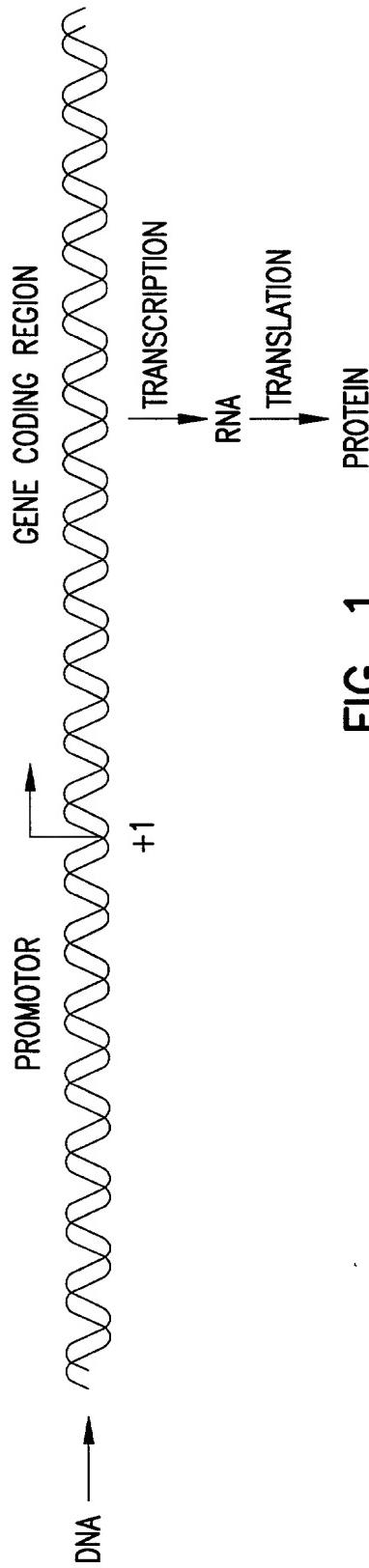
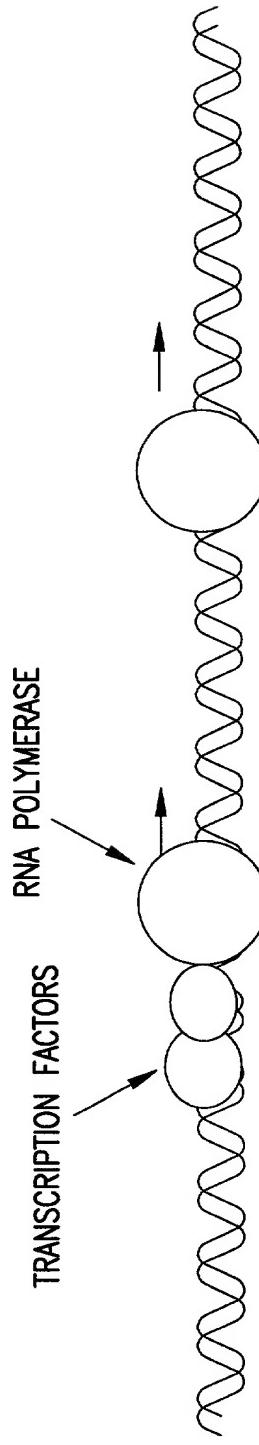


FIG. 1

ACTIVE GENE



1. TRANSCRIPTION FACTORS AND RNA POLYMERASE INTERACT PROMOTOR REGION

2. RNA POLYMERASE MOVES DOWN THE GENE TO READ OR "TRANSCRIBE" THE DNA CODING SEQUENCE AND PRODUCE mRNA

FIG. 2

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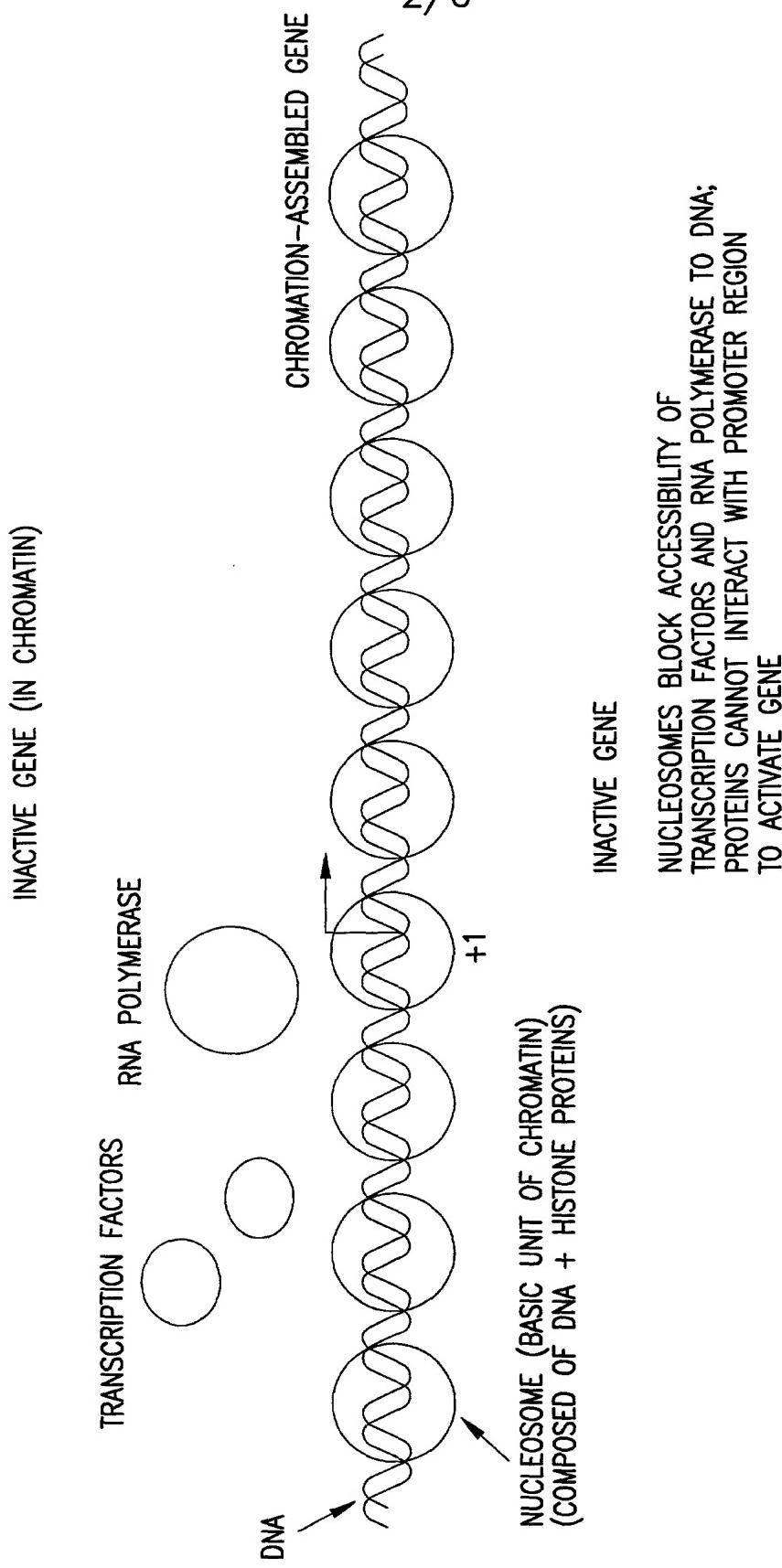


FIG. 3

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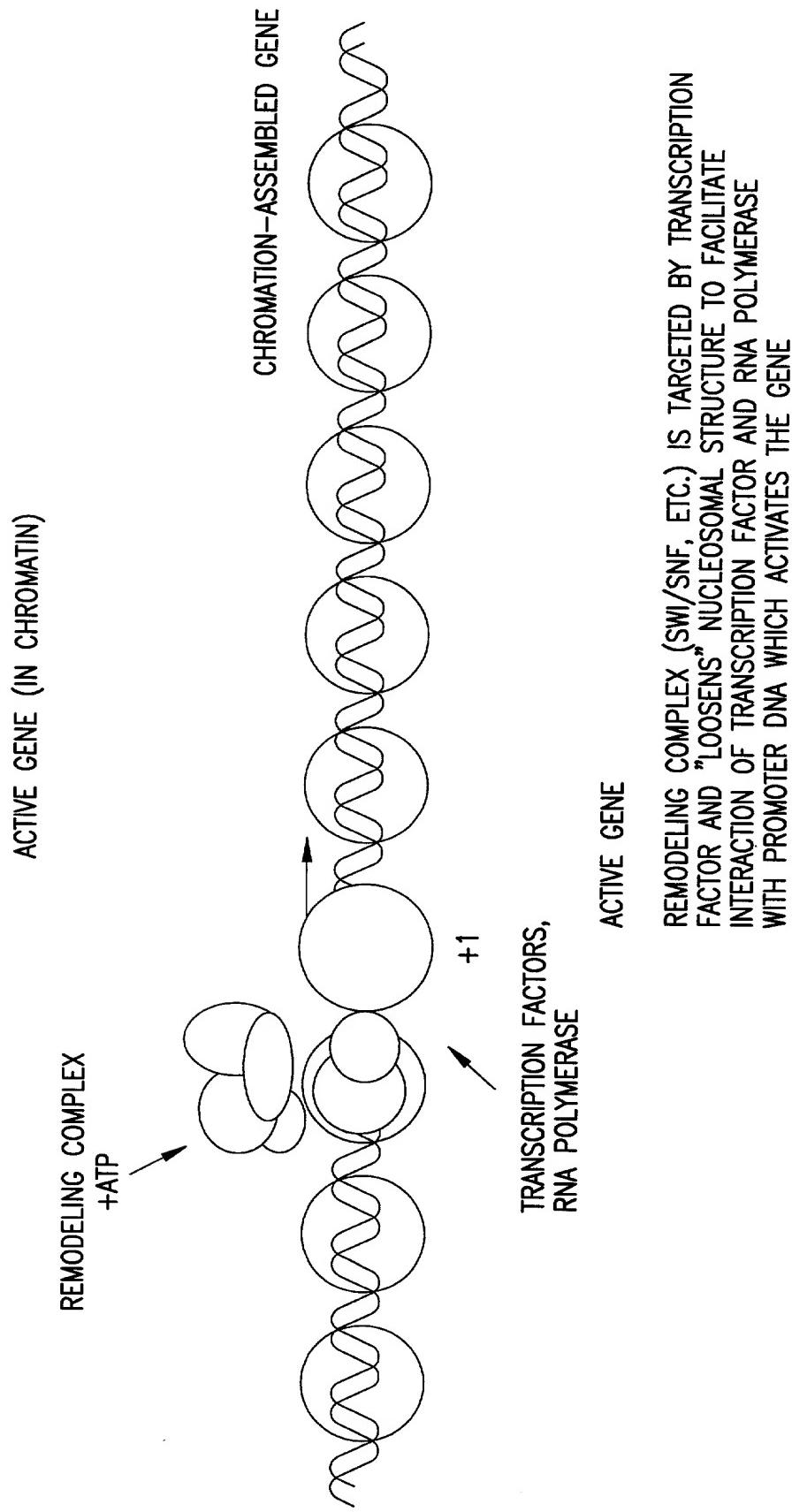


FIG. 4

REMODELING COMPLEX (SWI/SNF, ETC.) IS TARGETED BY TRANSCRIPTION FACTOR AND "LOOSENS" NUCLEOSOMAL STRUCTURE TO FACILITATE INTERACTION OF TRANSCRIPTION FACTOR AND RNA POLYMERASE WITH PROMOTER DNA WHICH ACTIVATES THE GENE

TITLE: METHOD OF REGULATING TRANSCRIPTION IN A CELL  
INVENTORS NAME: Beverly M. Emerson  
SERIAL NO.: 09/781,592

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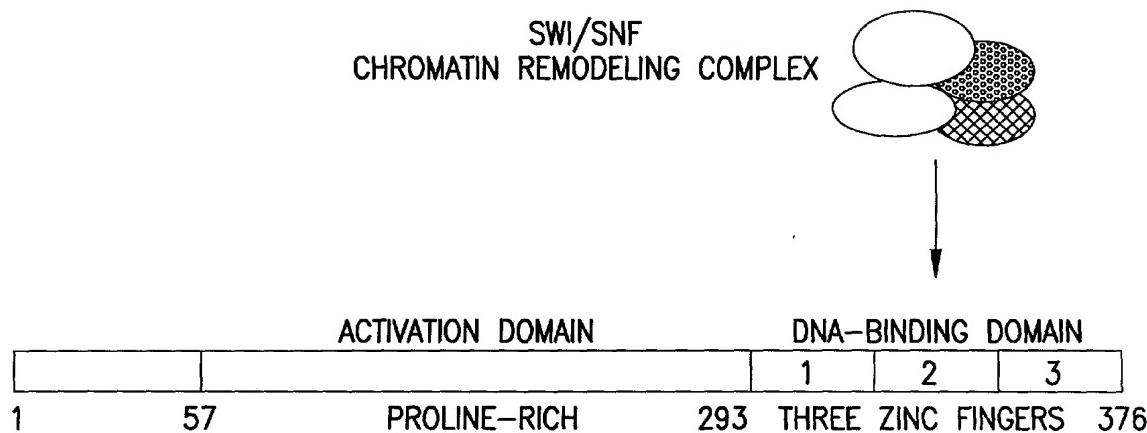


FIG. 5

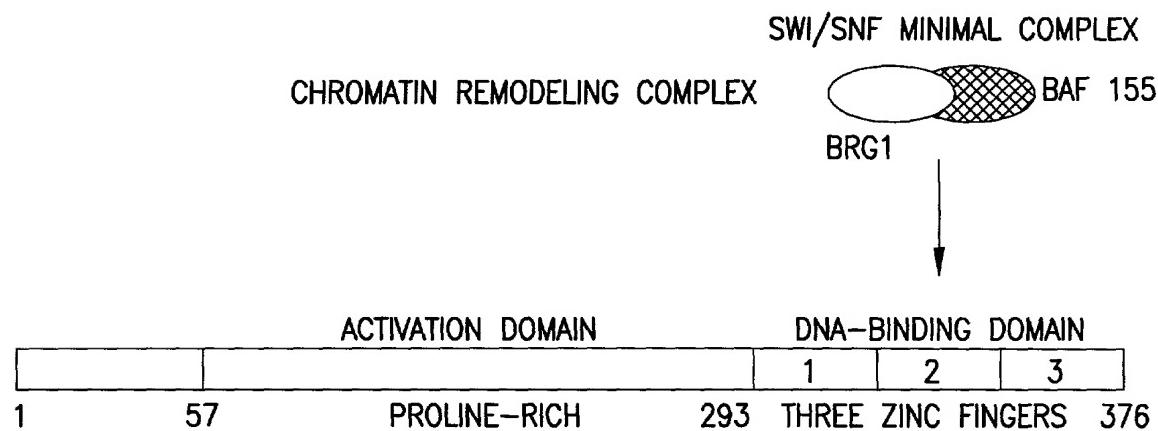


FIG. 6

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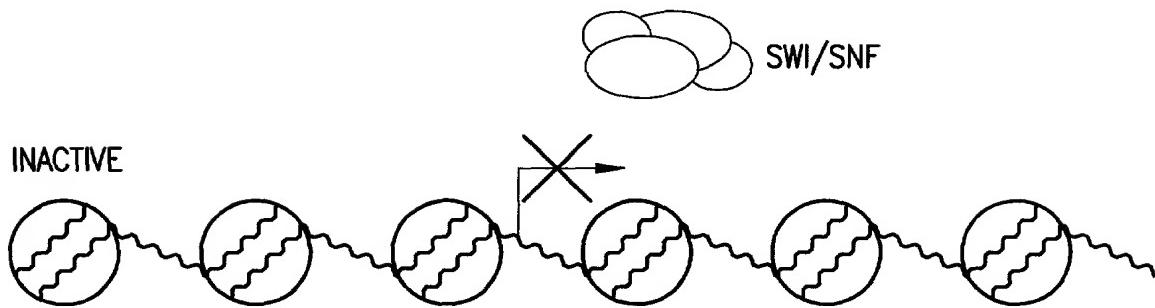


FIG. 7A

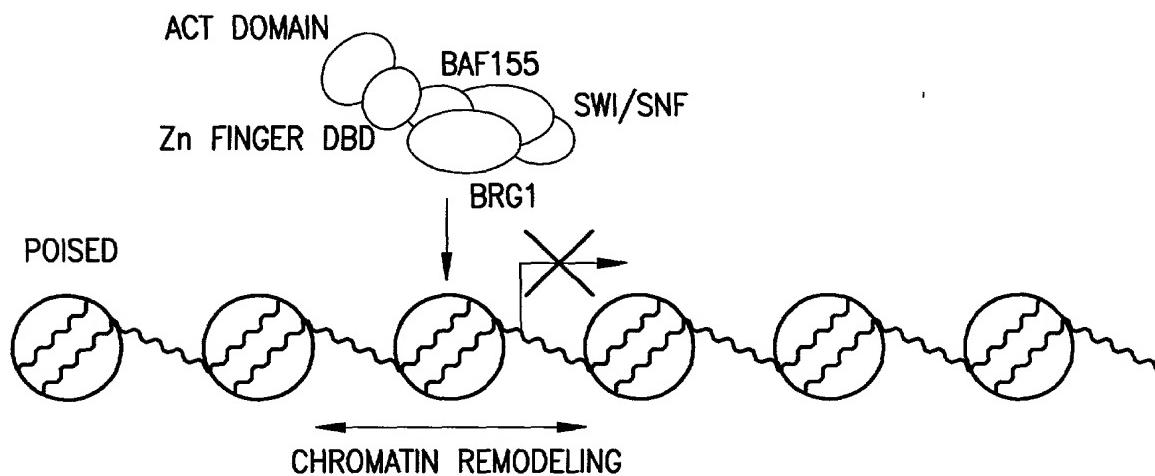


FIG. 7B

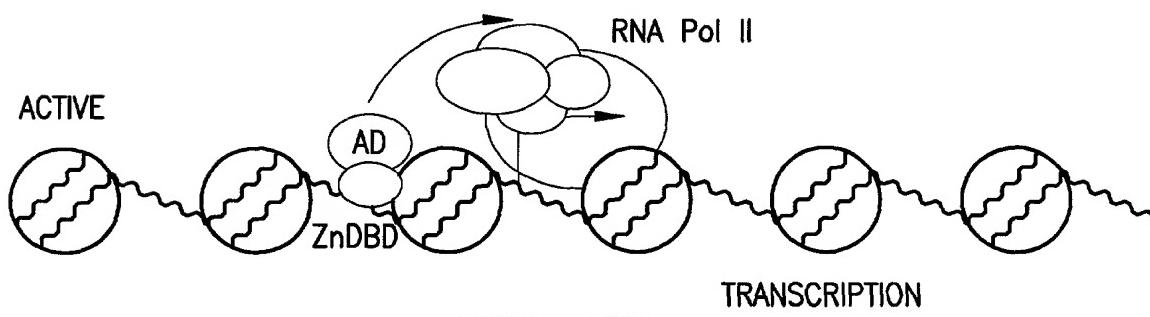


FIG. 7C

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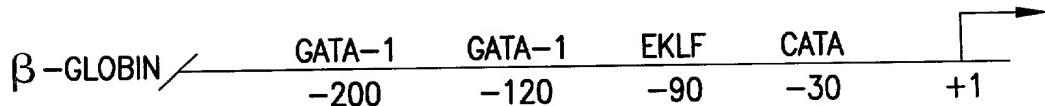


FIG. 8

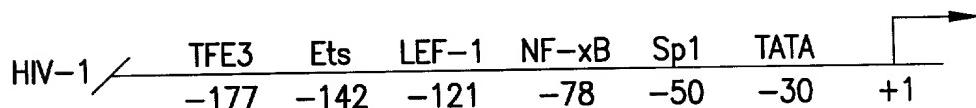


FIG. 9

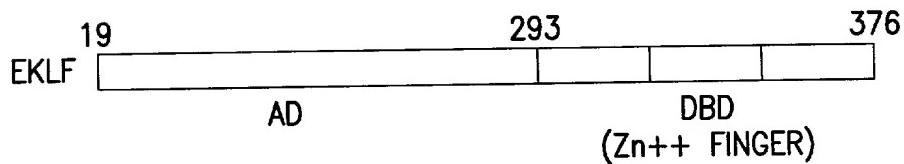


FIG. 10